Statement of Basis of the Federal Operating Permit

Orion Engineered Carbons LLC

Site Name: Orange Carbon Black Plant Physical Location: 1513 Echo Ave Nearest City: Orange County: Orange

> Permit Number: O1660 Project Type: Renewal

Standard Industrial Classification (SIC) Code: 2895 SIC Name: Carbon Black

This Statement of Basis sets forth the legal and factual basis for the draft permit conditions in accordance with 30 TAC §122.201(a)(4). Per 30 TAC §§ 122.241 and 243, the permit holder has submitted an application under § 122.134 for permit renewal. This document may include the following information:

A description of the facility/area process description;

A basis for applying permit shields;

A list of the federal regulatory applicability determinations;

A table listing the determination of applicable requirements;

A list of the New Source Review Requirements;

The rationale for periodic monitoring methods selected;

The rationale for compliance assurance methods selected;

A compliance status; and

A list of available unit attribute forms.

Prepared on: January 20, 2016

Operating Permit Basis of Determination

Permit Area Process Description

The Orange facility has three lines consisting of seven reactors that utilize the furnace method to produce carbon black from oil feedstock. Emissions from the carbon black oil furnace process include particulate matter, carbon monoxide, volatile organic compounds, nitrogen oxides, sulfur compounds and trace constituents.

In the carbon black furnace process, the feedstock oil is injected into a reactor where it is decomposed to form carbon black. The feedstock oil delivered to the facility by railcar truck and barge, is heavy aromatic oil, which is stored in three fixed roof oil storage tanks. Steam heat exchangers are used to keep the oil warm and maintain a lowered viscosity of the oil. The warm oil is pumped to furnace units. The oil is preheated by the reactor gases in a heat exchanger prior to entering the furnace reactors. The heated oil is fed into natural gas fired reactors, where it is pyrolized in an oxygen-depleted atmosphere to form carbon black. The reactive gases and entrained carbon black are cooled by direct water injection known as quench sprays. The cooled reactive gases and the entrained carbon black are routed to the product recovery bag filters, where the product carbon black is removed from the furnace tail gas. The tail gas vent stream flow rate is less than 100,000 acfm and is controlled by combustion devices.

From the bag filters, the carbon black is pneumatically conveyed to enclosed micro-pulverizers which grinds the material into more uniformly sized particles. From the micro-pulverizers, the carbon black material is pneumatically conveyed to surge tanks that feed enclosed pin-mixers where water and binder are added to form carbon black pellets. Furnace tail gas is the motive stream used to move the carbon black to the micro-pulverizers and the product recovery bag filters in a closed loop. Resultant fugitive emissions from the closed pneumatic conveyor system are accounted for in the furnace system fugitives.

The pelletized carbon black is dried in small, tail-gas-fired rotary dryers. A slipstream of the hot combustion exhaust is introduced counter current into the dryer drum to aid the drying process. Exhaust drawn from the product side of the dryers is exhausted through the dryer bag filters. The dried pellets are raised by bucket elevator or conveyor belt to a screener, where oversized material is removed. The dried carbon black pellets are then cooled in the fluid bed coolers by passing a stream of ambient air through the product. The air stream exhausts through the dryer bag filters. After cooling, the product is stored in one of several silos prior to being loaded. Off-spec carbon is pneumatically conveyed to off-spec tanks and is returned to the process pneumatic conveying system. The vent stream flow rate for the off-spec return is less than 100,000 acfm.

The Orange facility ships material out in railcars, trucks, super sacks and smaller sacks. The emissions from the storage silo and the indoor loading operations are controlled using bag-filters. The furnace tail gas exiting from the product recovery bag-filter is routed to the dryers, the process boiler the waste heat boilers or the VOC incinerator. The tail gas combusted in the waste heat boilers produces steam which is sent to the on-site cogeneration facility where it is used to generate electricity. Excess tail gas that is not fired for heating purposes is controlled by the VOC incinerator. Emissions from the combustion of tail gas are: sulfur dioxide, nitrogen oxides, volatile organic compounds, carbon monoxide, hydrogen sulfide, carbonyl sulfide, carbon disulfide, and particulate matter.

FOPs at Site

The "application area" consists of the emission units and that portion of the site included in the application and this permit. Multiple FOPs may be issued to a site in accordance with 30 TAC § 122.201(e). When there is only one area for the site, then the application information and permit will include all units at the site. Additional FOPs that exist at the site, if any, are listed below.

Additional FOPs: None

Major Source Pollutants

The table below specifies the pollutants for which the site is a major source:

Major Pollutants	SO2, NOX, HAPS, CO

Reading State of Texas's Federal Operating Permit

The Title V Federal Operating Permit (FOP) lists all state and federal air emission regulations and New Source Review (NSR) authorizations (collectively known as "applicable requirements") that apply at a particular site or permit area (in the event a site has multiple FOPs). **The FOP does not authorize new emissions or new construction activities.** The FOP begins with an introductory page which is common to all Title V permits. This page gives the details of the company, states the authority of the issuing agency, requires the company to operate in accordance with this permit and 30 Texas Administrative Code (TAC) Chapter 122, requires adherence with NSR requirements of 30 TAC Chapter 116, and finally indicates the permit number and the issuance date.

This is followed by the table of contents, which is generally composed of the following elements. Not all permits will have all of the elements.

- General Terms and Conditions
- Special Terms and Conditions
 - Emissions Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting
 - Additional Monitoring Requirements
 - New Source Review Authorization Requirements
 - o Compliance Requirements
 - o Protection of Stratosphere Ozone
 - Permit Location
 - o Permit Shield (30 TAC § 122.148)
- Attachments
 - o Applicable Requirements Summary
 - Unit Summary
 - Applicable Requirements Summary
 - o Additional Monitoring Requirements
 - Permit Shield
 - New Source Review Authorization References
 - o Compliance Plan
 - Alternative Requirements
- Appendix A
 - Acronym list
- Appendix B
 - Copies of major NSR authorizations

General Terms and Conditions

The General Terms and Conditions are the same and appear in all permits. The first paragraph lists the specific citations for 30 TAC Chapter 122 requirements that apply to all Title V permit holders. The second paragraph describes the requirements for record retention. The third paragraph provides details for voiding the permit, if applicable. The fourth paragraph states that the permit holder shall comply with the requirements of 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new

construction or modification of emission units located in the area covered by this permit. The fifth paragraph provides details on submission of reports required by the permit.

Special Terms and Conditions

Emissions Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting. The TCEQ has designated certain applicable requirements as site-wide requirements. A site-wide requirement is a requirement that applies uniformly to all the units or activities at the site. Units with only site-wide requirements are addressed on Form OP-REQ1 and are not required to be listed separately on a OP-UA Form or Form OP-SUM. Form OP-SUM must list all units addressed in the application and provide identifying information, applicable OP-UA Forms, and preconstruction authorizations. The various OP-UA Forms provide the characteristics of each unit from which applicable requirements are established. Some exceptions exist as a few units may have both site-wide requirements and unit specific requirements.

Other conditions. The other entries under special terms and conditions are in general terms referring to compliance with the more detailed data listed in the attachments.

Attachments

Applicable Requirements Summary. The first attachment, the Applicable Requirements Summary, has two tables, addressing unit specific requirements. The first table, the Unit Summary, includes a list of units with applicable requirements, the unit type, the applicable regulation, and the requirement driver. The intent of the requirement driver is to inform the reader that a given unit may have several different operating scenarios and the differences between those operating scenarios.

The applicable requirements summary table provides the detailed citations of the rules that apply to the various units. For each unit and operating scenario, there is an added modifier called the "index number," detailed citations specifying monitoring and testing requirements, recordkeeping requirements, and reporting requirements. The data for this table are based on data supplied by the applicant on the OP-SUM and various OP-UA forms.

Additional Monitoring Requirement. The next attachment includes additional monitoring the applicant must perform to ensure compliance with the applicable standard. Compliance assurance monitoring (CAM) is often required to provide a reasonable assurance of compliance with applicable emission limitations/standards for large emission units that use control devices to achieve compliance with applicant requirements. When necessary, periodic monitoring (PM) requirements are specified for certain parameters (i.e. feed rates, flow rates, temperature, fuel type and consumption, etc.) to determine if a term and condition or emission unit is operating within specified limits to control emissions. These additional monitoring approaches may be required for two reasons. First, the applicable rules do not adequately specify monitoring requirements (exception-Maximum Achievable Control Technology Standards (MACTs) generally have sufficient monitoring), and second, monitoring may be required to fill gaps in the monitoring requirements of certain applicable requirements. In situations where the NSR permit is the applicable requirement requiring extra monitoring for a specific emission unit, the preferred solution is to have the monitoring requirements in the NSR permit updated so that all NSR requirements are consolidated in the NSR permit.

Permit Shield. A permit may or may not have a permit shield, depending on whether an applicant has applied for, and justified the granting of, a permit shield. A permit shield is a special condition included in the permit document stating that compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirement(s) or specified applicable state-only requirement(s).

New Source Review Authorization References. All activities which are related to emissions in the state of Texas must have a NSR authorization prior to beginning construction. This section lists all units in the permit and

the NSR authorization that allowed the unit to be constructed or modified. Units that do not have unit specific applicable requirements other than the NSR authorization do not need to be listed in this attachment. While NSR permits are not physically a part of the Title V permit, they are legally incorporated into the Title V permit by reference. Those NSR permits whose emissions exceed certain PSD/NA thresholds must also undergo a Federal review of federally regulated pollutants in addition to review for state regulated pollutants.

Compliance Plan. A permit may have a compliance schedule attachment for listing corrective actions plans for any emission unit that is out of compliance with an applicable requirement.

Alternative Requirements. This attachment will list any alternative monitoring plans or alternative means of compliance for applicable requirements that have been approved by the EPA Administrator and/or the TCEQ Executive Director.

Appendix A

Acronym list. This attachment lists the common acronyms used when discussing the FOPs.

Appendix B

Copies of major NSR authorizations applicable to the units covered by this permit have been included in this Appendix, to ensure that all interested persons can access those authorizations.

Stationary vents subject to 30 TAC Chapter 111, Subchapter A, § 111.111(a)(1)(B) addressed in the Special Terms and Conditions

The site contains stationary vents with a flowrate less than 100,000 actual cubic feet per minute (acfm) and constructed either before or after January 31, 1972 which are limited, over a six-minute average, to 20% opacity as required by 30 TAC § 111.111(a)(1)(B). As a site may have a large number of stationary vents that fall into this category, they are not required to be listed individually in the permit's Applicable Requirement Summary. This is consistent with EPA's White Paper for Streamlined Development of Part 70 Permit Applications, July 10, 1995, that states that requirements that apply identically to emission units at a site can be treated on a generic basis such as source-wide opacity limits.

Periodic monitoring is specified in Special Term and Condition 3 for stationary vents subject to 30 TAC § 111.111(a)(1)(B) to verify compliance with the 20% opacity limit. These vents are not expected to produce visible emissions during normal operation. The TCEQ evaluated the probability of these sources violating the opacity standards and determined that there is a very low potential that an opacity standard would be exceeded. It was determined that continuous monitoring for these sources is not warranted as there would be very limited environmental benefit in continuously monitoring sources that have a low potential to produce visible emissions. Therefore, the TCEQ set the visible observation monitoring frequency for these sources to once per calendar quarter.

The TCEQ has exempted vents that are not capable of producing visible emissions from periodic monitoring requirements. These vents include sources of colorless VOCs, non-fuming liquids, and other materials that cannot produce emissions that obstruct the transmission of light. Passive ventilation vents, such as plumbing vents, are also included in this category. Since this category of vents are not capable of producing opacity due to the physical or chemical characteristics of the emission source, periodic monitoring is not required as it would not yield any additional data to assure compliance with the 20% opacity standard of 30 TAC § 111.111(a)(1)(B).

In the event that visible emissions are detected, either through the quarterly observation or other credible evidence, such as observations from company personnel, the permit holder shall either report a deviation or perform a Test Method 9 observation to determine the opacity consistent with the 6-minute averaging time

specified in 30 TAC § 111.111(a)(1)(B). An additional provision is included to monitor combustion sources more frequently than quarterly if alternate fuels are burned for periods greater than 24 consecutive hours. This will address possible emissions that may arise when switching fuel types.

Stationary Vents subject to 30 TAC Chapter 111 not addressed in the Special Terms and Conditions

All other stationary vents subject to 30 TAC Chapter 111 not covered in the Special Terms and Conditions are listed in the permit's Applicable Requirement Summary. The basis for the applicability determinations for these vents are listed in the Determination of Applicable Requirements table.

Federal Regulatory Applicability Determinations

The following chart summarizes the applicability of the principal air pollution regulatory programs to the permit area:

Regulatory Program	Applicability (Yes/No)
Prevention of Significant Deterioration (PSD)	Yes
Nonattainment New Source Review (NNSR)	No
Minor NSR	Yes
40 CFR Part 60 - New Source Performance Standards	No
40 CFR Part 61 - National Emission Standards for Hazardous Air Pollutants (NESHAPs)	No
40 CFR Part 63 - NESHAPs for Source Categories	Yes
Title IV (Acid Rain) of the Clean Air Act (CAA)	No
Title V (Federal Operating Permits) of the CAA	Yes
Title VI (Stratospheric Ozone Protection) of the CAA	Yes
CAIR (Clean Air Interstate Rule)	No

Basis for Applying Permit Shields

An operating permit applicant has the opportunity to specifically request a permit shield to document that specific applicable requirements do not apply to emission units in the permit. A permit shield is a special condition stating that compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements. A permit shield has been requested in the application for specific emission units. For the permit shield requests that have been approved, the basis of determination for regulations that the owner/operator need not comply with are located in the "Permit Shield" attachment of the permit.

Insignificant Activities

In general, units not meeting the criteria for inclusion on either Form OP-SUM or Form OP-REQ1 are not required to be addressed in the operating permit application. Examples of these types of units include, but are not limited to, the following:

- 1. Office activities such as photocopying, blueprint copying, and photographic processes.
- 2. Sanitary sewage collection and treatment facilities other than those used to incinerate wastewater treatment plant sludge. Stacks or vents for sanitary sewer plumbing traps are also included.
- 3. Food preparation facilities including, but not limited to, restaurants and cafeterias used for preparing food or beverages primarily for consumption on the premises.
- 4. Outdoor barbecue pits, campfires, and fireplaces.
- 5. Laundry dryers, extractors, and tumblers processing bedding, clothing, or other fabric items generated primarily at the premises. This does not include emissions from dry cleaning systems using perchloroethylene or petroleum solvents.
- 6. Facilities storing only dry, sweet natural gas, including natural gas pressure regulator vents.
- 7. Any air separation or other industrial gas production, storage, or packaging facility. Industrial gases, for purposes of this list, include only oxygen, nitrogen, helium, neon, argon, krypton, and xenon.
- 8. Storage and handling of sealed portable containers, cylinders, or sealed drums.
- 9. Vehicle exhaust from maintenance or repair shops.
- 10. Storage and use of non-VOC products or equipment for maintaining motor vehicles operated at the site (including but not limited to, antifreeze and fuel additives).
- 11. Air contaminant detectors and recorders, combustion controllers and shut-off devices, product analyzers, laboratory analyzers, continuous emissions monitors, other analyzers and monitors, and emissions associated with sampling activities. Exception to this category includes sampling activities that are deemed fugitive emissions and under a regulatory leak detection and repair program.
- 12. Bench scale laboratory equipment and laboratory equipment used exclusively for chemical and physical analysis, including but not limited to, assorted vacuum producing devices and laboratory fume hoods.
- 13. Steam vents, steam leaks, and steam safety relief valves, provided the steam (or boiler feedwater) has not contacted other materials or fluids containing regulated air pollutants other than boiler water treatment chemicals.
- 14. Storage of water that has not contacted other materials or fluids containing regulated air pollutants other than boiler water treatment chemicals.
- 15. Well cellars.
- 16. Fire or emergency response equipment and training, including but not limited to, use of fire control equipment including equipment testing and training, and open burning of materials or fuels associated with firefighting training.
- 17. Crucible or pot furnaces with a brim full capacity of less than 450 cubic inches of any molten metal.
- 18. Equipment used exclusively for the melting or application of wax.
- 19. All closed tumblers used for the cleaning or deburring of metal products without abrasive blasting, and all open tumblers with a batch capacity of 1,000 lbs. or less.
- 20. Shell core and shell mold manufacturing machines.
- 21. Sand or investment molds with a capacity of 100 lbs. or less used for the casting of metals;
- 22. Equipment used for inspection of metal products.
- 23. Equipment used exclusively for rolling, forging, pressing, drawing, spinning, or extruding either hot or cold metals by some mechanical means.
- 24. Instrument systems utilizing air, natural gas, nitrogen, oxygen, carbon dioxide, helium, neon, argon, krypton, and xenon.
- 25. Battery recharging areas.
- 26. Brazing, soldering, or welding equipment.

Determination of Applicable Requirements

The tables below include the applicability determinations for the emission units, the index number(s) where applicable, and all relevant unit attribute information used to form the basis of the applicability determination. The unit attribute information is a description of the physical properties of an emission unit which is used to determine the requirements to which the permit holder must comply. For more information about the

descriptions of the unit attributes specific Unit Attribute Forms may be viewed at www.tceq.texas.gov/permitting/air/nav/air_all_ua_forms.html.

A list of unit attribute forms is included at the end of this document. Some examples of unit attributes include construction date; product stored in a tank; boiler fuel type; etc.. Generally, multiple attributes are needed to determine the requirements for a given emission unit and index number. The table below lists these attributes in the column entitled "Basis of Determination." Attributes that demonstrate that an applicable requirement applies will be the factual basis for the specific citations in an applicable requirement that apply to a unit for that index number. The TCEQ Air Permits Division has developed flowcharts for determining applicability of state and federal regulations based on the unit attribute information in a Decision Support System (DSS). These flowcharts can be accessed via the internet at

www.tceq.texas.gov/permitting/air/nav/air_supportsys.html. The Air Permits Division staff may also be contacted for assistance at (512) 239-1250.

The attributes for each unit and corresponding index number provide the basis for determining the specific legal citations in an applicable requirement that apply, including emission limitations or standards, monitoring, recordkeeping, and reporting. The rules were found to apply or not apply by using the unit attributes as answers to decision questions found in the flowcharts of the DSS. Some additional attributes indicate which legal citations of a rule apply. The legal citations that apply to each emission unit may be found in the Applicable Requirements Summary table of the draft permit. There may be some entries or rows of units and rules not found in the permit, or if the permit contains a permit shield, repeated in the permit shield area. These are sets of attributes that describe negative applicability, or; in other words, the reason why a potentially applicable requirement does not apply.

If applicability determinations have been made which differ from the available flowcharts, an explanation of the decisions involved in the applicability determination is specified in the column "Changes and Exceptions to RRT." If there were no exceptions to the DSS, then this column has been removed.

The draft permit includes all emission limitations or standards, monitoring, recordkeeping and reporting required by each applicable requirement. If an applicable requirement does not require monitoring, recordkeeping, or reporting, the word "None" will appear in the Applicable Requirements Summary table. If additional periodic monitoring is required for an applicable requirement, it will be explained in detail in the portion of this document entitled "Rationale for Compliance Assurance Monitoring (CAM)/ Periodic Monitoring Methods Selected."

When attributes demonstrate that a unit is not subject to an applicable requirement, the applicant may request a permit shield for those items. The portion of this document entitled "Basis for Applying Permit Shields" specifies which units, if any, have a permit shield.

Operational Flexibility

When an emission unit has multiple operating scenarios, it will have a different index number associated with each operating condition. This means that units are permitted to operate under multiple operating conditions. The applicable requirements for each operating condition are determined by a unique set of unit attributes. For example, a tank may store two different products at different points in time. The tank may, therefore, need to comply with two distinct sets of requirements, depending on the product that is stored. Both sets of requirements are included in the permit, so that the permit holder may store either product in the tank.

Determination of Applicable Requirements

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**
BINT	30 TAC Chapter 115, Storage of	R5111	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.	
	VOCs		Tank Description = Tank does not require emission controls	
			True Vapor Pressure = True vapor pressure is greater than or equal to 1.0 psia but less than 1.5 psia	
			Product Stored = VOC other than crude oil or condensate	
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons	
BINT	30 TAC Chapter 115, Storage of	R5116-BINT	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.	
	VOCs		True Vapor Pressure = True vapor pressure is less than 1.0 psia	
			Product Stored = VOC other than crude oil or condensate	
			Storage Capacity = Capacity is greater than 1,000 gallons but less than or equal to 25,000 gallons	
BINT	40 CFR Part 60, Subpart K	60K-BINT	Construction/Modification Date = On or before June 11, 1973	
GRP-TNK1	30 TAC Chapter 115, Storage of	R5111	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.	
	VOCs		Tank Description = Tank does not require emission controls	
			True Vapor Pressure = True vapor pressure is less than 1.0 psia	
			Product Stored = VOC other than crude oil or condensate	
			Storage Capacity = Capacity is greater than 40,000 gallons	
GRP-TNK2	30 TAC Chapter 115, Storage of	R5112-TNK2	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.	
	VOCs	VOCs	Product Stored = VOC other than crude oil or condensate	
			Storage Capacity = Capacity is less than or equal to 1,000 gallons	
GTANK	30 TAC Chapter 115, Storage of	R5112-GTANK	Alternate Control Requirement = Not using an alternate method for demonstrating and documenting continuous compliance with applicable control requirements or exemption criteria.	
	VOCs		Product Stored = Gasoline from a storage container in motor vehicle fuel dispensing service (as defined in 30 TAC Chapter 115)	
			Storage Capacity = Capacity is less than or equal to 1,000 gallons	
1A-1	30 TAC Chapter 117, Subchapter B	R7ICI-1A-1	Unit Type = A cogeneration boiler utilizing heat or fuel from carbon black reactors.	
1A-1	40 CFR Part 60, Subpart Dc	60DC-1A-1	Construction/Modification Date = On or before June 9, 1989.	
1A-2	30 TAC Chapter 117, Subchapter B	R7ICI-1A-2	Unit Type = A cogeneration boiler utilizing heat or fuel from carbon black reactors.	
1A-2	40 CFR Part 60,	60DC-1A-2	Construction/Modification Date = On or before June 9, 1989.	
	Subpart Dc		PM Monitoring Type = Continuous monitoring system for opacity and the facility is not subject to a federally	

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**
			enforceable PM limit of 0.030 lb/MMBtu or less.	
			Maximum Design Heat Input Capacity = Maximum design heat input capacity is less than 10 MMBtu/hr (2.9 MW).	
			Technology Type = Other conventional technology.	
9	30 TAC Chapter	R7103-9	Unit Type = A cogeneration boiler utilizing heat or fuel from carbon black reactors.	
	117, Subchapter B		Maximum Rated Capacity = MRC is less than 40 MMBtu/hr.	
1 INC	30 TAC Chapter	R1111-1INC	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113.	
	111, Visible Emissions		Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit.	
			Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3).	
			Construction Date = After January 31, 1972	
			Effluent Flow Rate = Effluent flow rate is at least 100,000 actual cubic feet per minute.	
1 INC	30 TAC Chapter	R5121-1INC	Alternate Control Requirement = Alternate control is not used.	
	115, Vent Gas Controls		Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.	
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a non-combustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.	
			Control Device Type = Direct flame incinerator in which the vent gas stream is burned at a temperature or at least 1300° F (704 C).	
			Vent Type = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are applicable and the vent is not specifically classified under the rule.	
1A-1	30 TAC Chapter	R1111-1A1	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113.	
	111, Visible Emissions		Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit.	
			Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of § 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in § 111.111(a)(3).	
			Construction Date = After January 31, 1972	
			Effluent Flow Rate = Effluent flow rate is at least 100,000 actual cubic feet per minute.	
1A-1	30 TAC Chapter	R5121-1A1	Alternate Control Requirement = Alternate control is not used.	
	115, Vent Gas Controls		Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.	
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a non-combustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.	
			Control Device Type = Boiler in which the vent gas stream is burned at a temperature of at least 1300 degrees F (704 degrees C).	
			Vent Type = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are applicable and the vent is not	

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**
			specifically classified under the rule.	
1A-1	40 CFR Part 63, Subpart YY	63YY-1A1	Source Type = Carbon black production	
1A-2	30 TAC Chapter	R1111-1A2	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113.	
	111, Visible Emissions		Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit.	
			Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of \S 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in \S 111.111(a)(3).	
			Construction Date = After January 31, 1972	
			Effluent Flow Rate = Effluent flow rate is at least 100,000 actual cubic feet per minute.	
1A-2	30 TAC Chapter	R5121-1A2	Alternate Control Requirement = Alternate control is not used.	
	115, Vent Gas Controls		Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.	
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a non-combustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.	
			Control Device Type = Boiler in which the vent gas stream is burned at a temperature of at least 1300 degrees F (704 degrees C).	
			Vent Type = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are applicable and the vent is not specifically classified under the rule.	
1A-2	40 CFR Part 63, Subpart YY	63YY-1A2	Source Type = Carbon black production	
9	30 TAC Chapter	R1111-9	Alternate Opacity Limitation = Not complying with an alternate opacity limit under 30 TAC § 111.113.	
	111, Visible Emissions		Vent Source = The source of the vent is not a steam generator fired by solid fossil fuel, oil or a mixture of oil and gas and is not a catalyst regenerator for a fluid bed catalytic cracking unit.	
			Opacity Monitoring System = Optical instrument capable of measuring the opacity of emissions is not installed in the vent or optical instrumentation does not meet the requirements of \S 111.111(a)(1)(D), or the vent stream does not qualify for the exemption in \S 111.111(a)(3).	
			Construction Date = After January 31, 1972	
			Effluent Flow Rate = Effluent flow rate is at least 100,000 actual cubic feet per minute.	
9	30 TAC Chapter	R5121-9	Alternate Control Requirement = Alternate control is not used.	
	115, Vent Gas Controls		Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source.	
			Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a non-combustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2.	
			Control Device Type = Boiler in which the vent gas stream is burned at a temperature of at least 1300 degrees F (704 degrees C).	
			Vent Type = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are applicable and the vent is not specifically classified under the rule.	

Unit ID	Regulation	Index Number	Basis of Determination*	Changes and Exceptions to DSS**
9	40 CFR Part 63, Subpart YY	63YY-9	Source Type = Carbon black production	
GRP-DRY	30 TAC Chapter 115, Vent Gas Controls	R5121-DRY	Alternate Control Requirement = Alternate control is not used. Chapter 115 Division = The vent stream does not originate from a source for which another Division in 30 TAC Chapter 115 establishes a control requirement, emission specification, or exemption for that source. Combustion Exhaust = The vent stream is not from a combustion unit exhaust or the combustion unit is used as a control device for a vent stream originating from a non-combustion source subject to 30 TAC Chapter 115, Subchapter B, Division 2. Control Device Type = Vapor combustor not considered to be a flare. Vent Type = Title 30 TAC Chapter 115, Subchapter B, Vent Gas Control rules are applicable and the vent is not	
GRP-DRY	40 CFR Part 63, Subpart YY	63YY-DRY	specifically classified under the rule. Source Type = Carbon black production	
GRP-RXT	40 CFR Part 63, Subpart YY	63YY-RXT	Source Type = Carbon black production	The rule citations were determined from an analysis of the rule text and the basis of determination.
GRP-RXT	40 CFR Part 60, Subpart RRR	60RRR-RXT	Chemicals Listed in 40 CFR § 60.707 = The affected facility is not part of a process unit that produces chemicals listed in 40 CFR § 60.707 as a product, co-product, by product, or intermediate.	
1 INC	40 CFR Part 63, Subpart YY	63YY-1INC	Research and Development = THE PROCESS UNIT IS USED IN PRODUCTION Flexible Unit = THE PROCESS UNIT IS DEDICATED TO ONE PRODUCT Primary Product = THE PRIMARY PRODUCT OF THE PROCESS UNIT IS A PRODUCT PRODUCED BY A REGULATED SOURCE CATEGORY Source Category = CARBON BLACK PRODUCTION	

^{* -} The "unit attributes" or operating conditions that determine what requirements apply
** - Notes changes made to the automated results from the DSS, and a brief explanation why

NSR Versus Title V FOP

The state of Texas has two Air permitting programs, New Source Review (NSR) and Title V Federal Operating Permits. The two programs are substantially different both in intent and permit content.

NSR is a preconstruction permitting program authorized by the Texas Clean Air Act and Title I of the Federal Clean Air Act (FCAA). The processing of these permits is governed by 30 Texas Administrative Code (TAC) Chapter 116.111. The Title V Federal Operating Program is a federal program authorized under Title V of the FCAA that has been delegated to the state of Texas to administer and is governed by 30 TAC Chapter 122. The major differences between the two permitting programs are listed in the table below:

Issued Prior to new Construction or modification of an existing facility Authorizes air emissions Ensures issued permits are protective of the environment and human health by conducting a health effects review and that requirement for best available control technology (BACT) is implemented. Up to two Public notices may be required. Opportunity for public comment and contested case hearings for some authorizations. Applies to all point source emissions in the state. Applies to facilities: a portion of site or individual emission sources Permits include terms and conditions under which the applicant must construct and operate its various equipment and processes on a facility basis. Opportunity for EPA review for Federal Prevention of Significant Deterioration (PSD) and Nonattainment (NA) permits for major sources. Permits have a table listing maximum emission limits for pollutants Permits can be altered or amended upon application by company. Permits must be issued before construction or modification of facilities can begin. For initial permit with application shield, can be issued after operation commences; significant revisions require approval prior to operation. Codifies existing applicable requirements, does not authorize new emissions. Application by ensure proper operation of the site as authorized. Ensures that adequate monitoring is in place to allow compliance determination with the FOP. One public notice required. Opportunity for public comments. No contested case hearings. Applies to all major sources and some non-major sources identified by the EPA. One or multiple FoPs cover the entire site (consists of multiple facilities) Permits include terms and conditions that specify the general operational requirements of the site; and also include codification of all applicable requirements for emission units at the site. Opportunity for EPA review, Affected states review, and a Public petition period for every FOP. Permit has an applicable requirements table and Periodic Monitoring (PM) /	NSR Permit	Federal Operating Permit(FOP)
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		issued before those changes can be operated.
NSR permits are issued independent of FOP FOP are independent of NSR permits, but contain a list	NSR permits are issued independent of FOP	
requirements. of all NSR permits incorporated by reference		

New Source Review Requirements

Below is a list of the New Source Review (NSR) permits for the permitted area. These NSR permits are incorporated by reference into the operating permit and are enforceable under it. These permits can be found in the main TCEQ file room, located on the first floor of Building E, 12100 Park 35 Circle, Austin, Texas. The Public Education Program may be contacted at 1-800-687-4040 or the Air Permits Division (APD) may be contacted at 1-512-239-1250 for help with any question.

Additionally, the site contains emission units that are permitted by rule under the requirements of 30 TAC Chapter 106, Permits by Rule. The following table specifies the permits by rule that apply to the site. All current permits by rule are contained in Chapter 106. Outdated 30 TAC Chapter 106 permits by rule may be viewed at the following Web site:

www.tceq.texas.gov/permitting/air/permitbyrule/historical_rules/old106list/index106.html

Outdated Standard Exemption lists may be viewed at the following Web site:

www.tceq.texas.gov/permitting/air/permitbyrule/historical_rules/oldselist/se_index.html

The status of air permits and applications and a link to the Air Permits Remote Document Server is located at the following Web site:

www.tceq.texas.gov/permitting/air/nav/air_status_permits.html

Prevention of Significant Deterioration (PSD) Permits			
PSD Permit No.: PSDTX627M2 Issuance Date: 12/05/2014			
Γitle 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.			
Authorization No.: 9403B	Issuance Date: 12/05/2014		
Permits By Rule (30 TAC Chapter 106) for the Application Area		
Number: 106.102	Version No./Date: 09/04/2000		
Number: 106.122	Version No./Date: 09/04/2000		
Number: 106.183	Version No./Date: 09/04/2000		
Number: 106.227	Version No./Date: 09/04/2000		
Number: 106.261	Version No./Date: 11/01/2003		
Number: 106.262	Version No./Date: 09/04/2000		
Number: 106.262	Version No./Date: 11/01/2003		
Number: 106.263	Version No./Date: 11/01/2001		
Number: 106.264	Version No./Date: 09/04/2000		
Number: 106.265	Version No./Date: 09/04/2000		
Number: 106.266	Version No./Date: 09/04/2000		
Number: 106.371	Version No./Date: 09/04/2000		
Number: 106.412	Version No./Date: 09/04/2000		

Number: 106.452	Version No./Date: 09/04/2000
Number: 106.454	Version No./Date: 09/04/2000
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 03/14/1997
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.531	Version No./Date: 09/04/2000
Number: 106.532	Version No./Date: 09/04/2000

Emission Units and Emission Points

In air permitting terminology, any source capable of generating emissions (for example, an engine or a sandblasting area) is called an Emission Unit. For purposes of Title V, emission units are specifically listed in the operating permit when they have applicable requirements other than New Source Review (NSR), or when they are listed in the permit shield table.

The actual physical location where the emissions enter the atmosphere (for example, an engine stack or a sand-blasting yard) is called an emission point. For New Source Review preconstruction permitting purposes, every emission unit has an associated emission point. Emission limits are listed in an NSR permit, associated with an emission point. This list of emission points and emission limits per pollutant is commonly referred to as the "Maximum Allowable Emission Rate Table", or "MAERT" for short. Specifically, the MAERT lists the Emission Point Number (EPN) that identifies the emission point, followed immediately by the Source Name, identifying the emission unit that is the source of those emissions on this table.

Thus, by reference, an emission unit in a Title V operating permit is linked by reference number to an NSR authorization, and its related emission point.

Monitoring Sufficiency

Federal and state rules, 40 CFR § 70.6(a)(3)(i)(B) and 30 TAC § 122.142(c) respectively, require that each federal operating permit include additional monitoring for applicable requirements that lack periodic or instrumental monitoring (which may include recordkeeping that serves as monitoring) that yields reliable data from a relevant time period that are representative of the emission unit's compliance with the applicable emission limitation or standard. Furthermore, the federal operating permit must include compliance assurance monitoring (CAM) requirements for emission sources that meet the applicability criteria of 40 CFR Part 64 in accordance with 40 CFR § 70.6(a)(3)(i)(A) and 30 TAC § 122.604(b).

With the exception of any emission units listed in the Periodic Monitoring or CAM Summaries in the FOP, the TCEQ Executive Director has determined that the permit contains sufficient monitoring, testing, recordkeeping, and reporting requirements that assure compliance with the applicable requirements. If applicable, each emission unit that requires additional monitoring in the form of periodic monitoring or CAM is described in further detail under the Rationale for CAM/PM Methods Selected section following this paragraph.

Rationale for Compliance Assurance Monitoring (CAM)/ Periodic Monitoring Methods Selected

Periodic Monitoring:

The Federal Clean Air Act requires that each federal operating permit include monitoring sufficient to assure compliance with the terms and conditions of the permit. Most of the emission limits and standards applicable to emission units at Title V sources include adequate monitoring to show that the units meet the limits and standards. For those requirements that do not include monitoring, or where the monitoring is not sufficient to assure compliance, the federal operating permit must include such monitoring for the emission units affected. The following emission units are subject to periodic monitoring requirements because the emission units are subject to an emission limitation or standard for an air pollutant (or surrogate thereof) in an applicable requirement that does not already require monitoring, or the monitoring for the applicable requirement is not sufficient to assure compliance:

Unit/Group/Process Information			
ID No.: 1 INC			
Control Device ID No.: N/A	Control Device Type: N/A		
Applicable Regulatory Requirement			
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1INC		
Pollutant: PM (OPACITY) Main Standard: § 111.111(a)(1)(C)			
Monitoring Information			
Indicator: Opacity			
Minimum Frequency: Once per quarter			
Averaging Period: 6 minutes = 24 observations x 15-second intervals			
Deviation Limit: Maximum Opacity = 15%			

Basis of monitoring:

The option to perform opacity readings or visible emissions to demonstrate compliance is consistent with EPA Reference Test Method 9 and 22. Opacity and visible emissions have been used as an indicator of particulate emissions in many federal rules including 40 CFR Part 60, Subpart F and Subpart HH. In addition, use of these indicators is consistent with the EPA's "Compliance Assurance Monitoring (CAM) Technical Guidance Document" (August 1998). Monitoring specifications and procedures for the opacity are consistent with federal requirements and include the EPA's Test Method 9 for determining opacity by visual observations and the requirements of 40 CFR § 60.13 for a continuous opacity monitoring system (COMS). The monitoring specifications and procedures for the visible emissions monitoring are similar to "EPA Reference Method 22" procedures.

Unit/Group/Process Information			
ID No.: 1 INC			
Control Device ID No.: 1 INC	Control Device Type: Thermal Incinerator (Direct Flame Incinerator/Regenerative Thermal Oxidizer)		
Applicable Regulatory Requirement			
Name: 30 TAC Chapter 115, Vent Gas Controls SOP Index No.: R5121-1INC			
Pollutant: VOC Main Standard: § 115.122(a)(1)			
Monitoring Information			
Indicator: Combustion Temperature / Exhaust Gas Temperature.			
Minimum Frequency: Once per week			
Averaging Period: n/a			
Deviation Limit: Minimum Temperature = 1300 degrees Fahrenheit.			

Basis of monitoring:

It is widely practiced and accepted to use performance tests, manufacturer's recommendations, engineering calculations and/or historical data to establish a minimum temperature for thermal incinerators. This minimum temperature must be maintained in order for the proper destruction efficiency. Operation below the minimum combustion temperature will result in incomplete combustion and potential noncompliance with emission limitations and/or standards. The monitoring of the combustion temperature of a thermal incinerator is commonly required in federal and state rules, including: 40 CFR Part 60, Subparts III, NNN, QQQ, and RRR; 40 CFR Part 61, Subparts BB and FF; 40 CFR Part 63, Subparts G, R, DD, EE, and HH; and 30 TAC Chapter 115.

Unit/Group/Process Information				
ID No.: 1A-1				
Control Device ID No.: N/A Control Device Type: N/A				
Applicable Regulatory Requirement				
Name: 30 TAC Chapter 111, Visible Emissions SOP Index No.: R1111-1A1				
Pollutant: PM (OPACITY) Main Standard: § 111.111(a)(1)(C)				
Monitoring Information				
Indicator: Opacity				
Minimum Frequency: Once per quarter				
Averaging Period: 6 minutes = 24 observations x 15-second intervals				

Deviation Limit: Maximum Opacity = 15%

Basis of monitoring:

The option to perform opacity readings or visible emissions to demonstrate compliance is consistent with EPA Reference Test Method 9 and 22. Opacity and visible emissions have been used as an indicator of particulate emissions in many federal rules including 40 CFR Part 60, Subpart F and Subpart HH. In addition, use of these indicators is consistent with the EPA's "Compliance Assurance Monitoring (CAM) Technical Guidance Document" (August 1998). Monitoring specifications and procedures for the opacity are consistent with federal requirements and include the EPA's Test Method 9 for determining opacity by visual observations and the requirements of 40 CFR § 60.13 for a continuous opacity monitoring system (COMS). The monitoring specifications and procedures for the visible emissions monitoring are similar to "EPA Reference Method 22" procedures.

Unit/Group/Process Information		
ID No.: 1A-1		
Control Device ID No.: 1A-1	Control Device Type: Steam Generating Unit (Boiler)/Process Heater (Design heat input is less than 44MW)	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-1A1	
Pollutant: VOC	Main Standard: § 115.122(a)(1)	
Monitoring Information		
Indicator: Combustion Temperature / Exhaust Gas	Temperature	
Minimum Frequency: Once per week		
Averaging Period: n/a*		
Deviation Limit: Minimum Temperature = 1300 de	egrees Fahrenheit.	
Basis of monitoring:		

It is widely practiced and accepted to use performance tests, manufacturer's recommendations, engineering calculations and/or historical data to establish a minimum temperature for boilers/process heaters. This minimum temperature must be maintained in order for the proper destruction efficiency. Operation below the minimum combustion temperature will result in incomplete combustion and potential noncompliance with emission limitations and/or standards. The monitoring of combustion temperature of a boiler/process heater is commonly required in federal and state rules, including: 40 CFR Part 60, Subparts III, NNN, and RRR; 40 CFR Part 61, Subparts BB and FF; 40 CFR Part 63, Subparts G, DD, and HH; and 30 TAC Chapter

*The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

Unit/Group/Process Information		
ID No.: 1A-2		
Control Device ID No.: N/A	Control Device Type: N/A	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-1A2	
Pollutant: PM (OPACITY)	Main Standard: § 111.111(a)(1)(C)	
Monitoring Information		
Indicator: Opacity		
Minimum Frequency: Once per quarter		
Averaging Period: 6 minutes = 24 observations x 15-second intervals		

Basis of monitoring:

Deviation Limit: Maximum Opacity = 15%

The option to perform opacity readings or visible emissions to demonstrate compliance is consistent with EPA Reference Test Method 9 and 22. Opacity and visible emissions have been used as an indicator of particulate emissions in many federal rules including 40 CFR Part 60, Subpart F and Subpart HH. In addition, use of these indicators is consistent with the EPA's "Compliance Assurance Monitoring (CAM) Technical Guidance Document" (August 1998). Monitoring specifications and procedures for the opacity are consistent with federal requirements and include the EPA's Test Method 9 for determining opacity by visual observations and the requirements of 40 CFR § 60.13 for a continuous opacity monitoring system (COMS). The monitoring specifications and procedures for the visible emissions monitoring are similar to "EPA Reference Method 22" procedures.

Unit/Group/Process Information	
ID No.: 1A-2	
Control Device ID No.: 1A-2	Control Device Type: Steam Generating Unit (Boiler)/Process Heater (Design heat input is less than 44MW)
Applicable Regulatory Requirement	·
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-1A2
Pollutant: VOC	Main Standard: § 115.122(a)(1)
Monitoring Information	
Indicator: Combustion Temperature / Exhaust Gas	Temperature
Minimum Frequency: Once per week	
Averaging Period: n/a*	
Deviation Limit: Minimum Temperature = 1300 de	egrees Fahrenheit.
Basis of monitoring:	

It is widely practiced and accepted to use performance tests, manufacturer's recommendations, engineering calculations and/or historical data to establish a minimum temperature for boilers/process heaters. This minimum temperature must be maintained in order for the proper destruction efficiency. Operation below the minimum combustion temperature will result in incomplete combustion and potential noncompliance with emission limitations and/or standards. The monitoring of combustion temperature of a boiler/process heater is commonly required in federal and state rules, including: 40 CFR Part 60, Subparts III, NNN, and RRR; 40 CFR Part 61, Subparts BB and FF; 40 CFR Part 63, Subparts G, DD, and HH; and 30 TAC Chapter

*The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

Unit/Group/Process Information		
ID No.: 9		
Control Device ID No.: N/A	Control Device Type: N/A	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-9	
Pollutant: PM (OPACITY)	Main Standard: § 111.111(a)(1)(C)	
Monitoring Information		
Indicator: Opacity		
Minimum Frequency: Once per quarter		
Averaging Period: 6 minutes = 24 observations x 15-second intervals		

Deviation Limit: Maximum Opacity = 15%

Basis of monitoring:
The option to perform opacity readings or visible emissions to demonstrate compliance is consistent with EPA Reference Test Method 9 and 22. Opacity and visible emissions have been used as an indicator of particulate emissions in many federal rules including 40 CFR Part 60, Subpart F and Subpart HH. In addition, use of these indicators is consistent with the EPA's "Compliance Assurance Monitoring (CAM) Technical Guidance Document" (August 1998). Monitoring specifications and procedures for the opacity are consistent with federal requirements and include the EPA's Test Method 9 for determining opacity by visual observations and the requirements of 40 CFR § 60.13 for a continuous opacity monitoring system (COMS). The monitoring specifications and procedures for the visible emissions monitoring are similar to "EPA Reference Method 22" procedures.

Unit/Group/Process Information		
ID No.: 9		
Control Device ID No.: 9	Control Device Type: Steam Generating Unit (Boiler)/Process Heater (Design heat input is less than 44MW)	
Applicable Regulatory Requirement		
Name: 30 TAC Chapter 115, Vent Gas Controls	SOP Index No.: R5121-9	
Pollutant: VOC	Main Standard: § 115.122(a)(1)	
Monitoring Information		
Indicator: Combustion Temperature / Exhaust Gas	Temperature	
Minimum Frequency: Once per week		
Averaging Period: n/a*		
Deviation Limit: Minimum Temperature = 1300 de	grees Fahrenheit.	
Basis of monitoring:		

It is widely practiced and accepted to use performance tests, manufacturer's recommendations, engineering calculations and/or historical data to establish a minimum temperature for boilers/process heaters. This minimum temperature must be maintained in order for the proper destruction efficiency. Operation below the minimum combustion temperature will result in incomplete combustion and potential noncompliance with emission limitations and/or standards. The monitoring of combustion temperature of a boiler/process heater is commonly required in federal and state rules, including: 40 CFR Part 60, Subparts III, NNN, and RRR; 40 CFR Part 61, Subparts BB and FF; 40 CFR Part 63, Subparts G, DD, and HH; and 30 TAC Chapter

^{*}The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

Compliance Review
1. In accordance with 30 TAC Chapter 60, the compliance history was reviewed on <u>January 20, 2016.</u>
Site rating: <u>0.92 / Satisfactory</u> Company rating: <u>0.46 / Satisfactory</u>
(High < 0.10 ; Satisfactory ≥ 0.10 and ≤ 55 ; Unsatisfactory > 55)
2. Has the permit changed on the basis of the compliance history or site/company rating?
Permit reviewer notes: n/a
Site/Permit Area Compliance Status Review
1. Were there any out-of-compliance units listed on Form OP-ACPS?No
2. Is a compliance plan and schedule included in the permit?
Permit reviewer notes: n/a
remint reviewer notes: n/a
Annilable Hait Attailante Formes
Available Unit Attribute Forms
OP-UA1 - Miscellaneous and Generic Unit Attributes
OP-UA2 - Stationary Reciprocating Internal Combustion Engine Attributes
OP-UA3 - Storage Tank/Vessel Attributes
OP-UA4 - Loading/Unloading Operations Attributes
OP-UA5 - Process Heater/Furnace Attributes
OP-UA6 - Boiler/Steam Generator/Steam Generating Unit Attributes
OP-UA7 - Flare Attributes
OP-UA8 - Coal Preparation Plant Attributes
OP-UA9 - Nonmetallic Mineral Process Plant Attributes
OP-UA10 - Gas Sweetening/Sulfur Recovery Unit Attributes
OP-UA11 - Stationary Turbine Attributes
OP-UA12 - Fugitive Emission Unit Attributes
OP-UA13 - Industrial Process Cooling Tower Attributes
OP-UA14 - Water Separator Attributes
OP-UA15 - Emission Point/Stationary Vent/Distillation Operation/Process Vent Attributes
OP-UA16 - Solvent Degreasing Machine Attributes OP-UA17 - Distillation Unit Attributes
OP-UA18 - Surface Coating Operations Attributes
OP-UA19 - Wastewater Unit Attributes
OP-UA20 - Asphalt Operations Attributes
OP-UA21 - Grain Elevator Attributes
OP-UA22 - Printing Attributes
OP-UA24 - Wool Fiberglass Insulation Manufacturing Plant Attributes
OP-UA25 - Synthetic Fiber Production Attributes
OP-UA26 - Electroplating and Anodizing Unit Attributes
OP-UA27 - Nitric Acid Manufacturing Attributes
OP-UA28 - Polymer Manufacturing Attributes
OP-UA29 - Glass Manufacturing Unit Attributes
OP-UA30 - Kraft, Soda, Sulfite, and Stand-Alone Semi-chemical Pulp Mill Attributes
OP-UA31 - Lead Smelting Attributes
OP-UA32 - Copper and Zinc Smelting/Brass and Bronze Production Attributes
OP-UA33 - Metallic Mineral Processing Plant Attributes
OP-UA34 - Pharmaceutical Manufacturing
OP-UA35 - Incinerator Attributes
OP-UA36 - Steel Plant Unit Attributes

- OP-UA37 Basic Oxygen Process Furnace Unit Attributes
- OP-UA38 Lead-Acid Battery Manufacturing Plant Attributes
- OP-UA39 Sterilization Source Attributes
- OP-UA40 Ferroalloy Production Facility Attributes
- OP-UA41 Dry Cleaning Facility Attributes
- OP-UA42 Phosphate Fertilizer Manufacturing Attributes
- OP-UA43 Sulfuric Acid Production Attributes
- OP-UA44 Municipal Solid Waste Landfill/Waste Disposal Site Attributes
- OP-UA45 Surface Impoundment Attributes
- OP-UA46 Epoxy Resins and Non-Nylon Polyamides Production Attributes
- OP-UA47 Ship Building and Ship Repair Unit Attributes
- OP-UA48 Air Oxidation Unit Process Attributes
- OP-UA49 Vacuum-Producing System Attributes
- OP-UA50 Fluid Catalytic Cracking Unit Catalyst Regenerator/Fuel Gas Combustion Device/Claus Sulfur Recovery Plant Attributes
- OP-UA51 Dryer/Kiln/Oven Attributes
- OP-UA52 Closed Vent Systems and Control Devices
- OP-UA53 Beryllium Processing Attributes
- OP-UA54 Mercury Chlor-Alkali Cell Attributes
- **OP-UA55 Transfer System Attributes**
- OP-UA56 Vinyl Chloride Process Attributes
- OP-UA57 Cleaning/De-painting Operation Attributes
- **OP-UA58 Treatment Process Attributes**
- OP-UA59 Coke By-Product Recovery Plant Attributes
- OP-UA60 Chemical Manufacturing Process Unit Attributes
- OP-UA61 Pulp, Paper, or Paperboard Producing Process Attributes
- OP-UA62 Glycol Dehydration Unit Attributes
- OP-UA63 Vegetable Oil Production Attributes